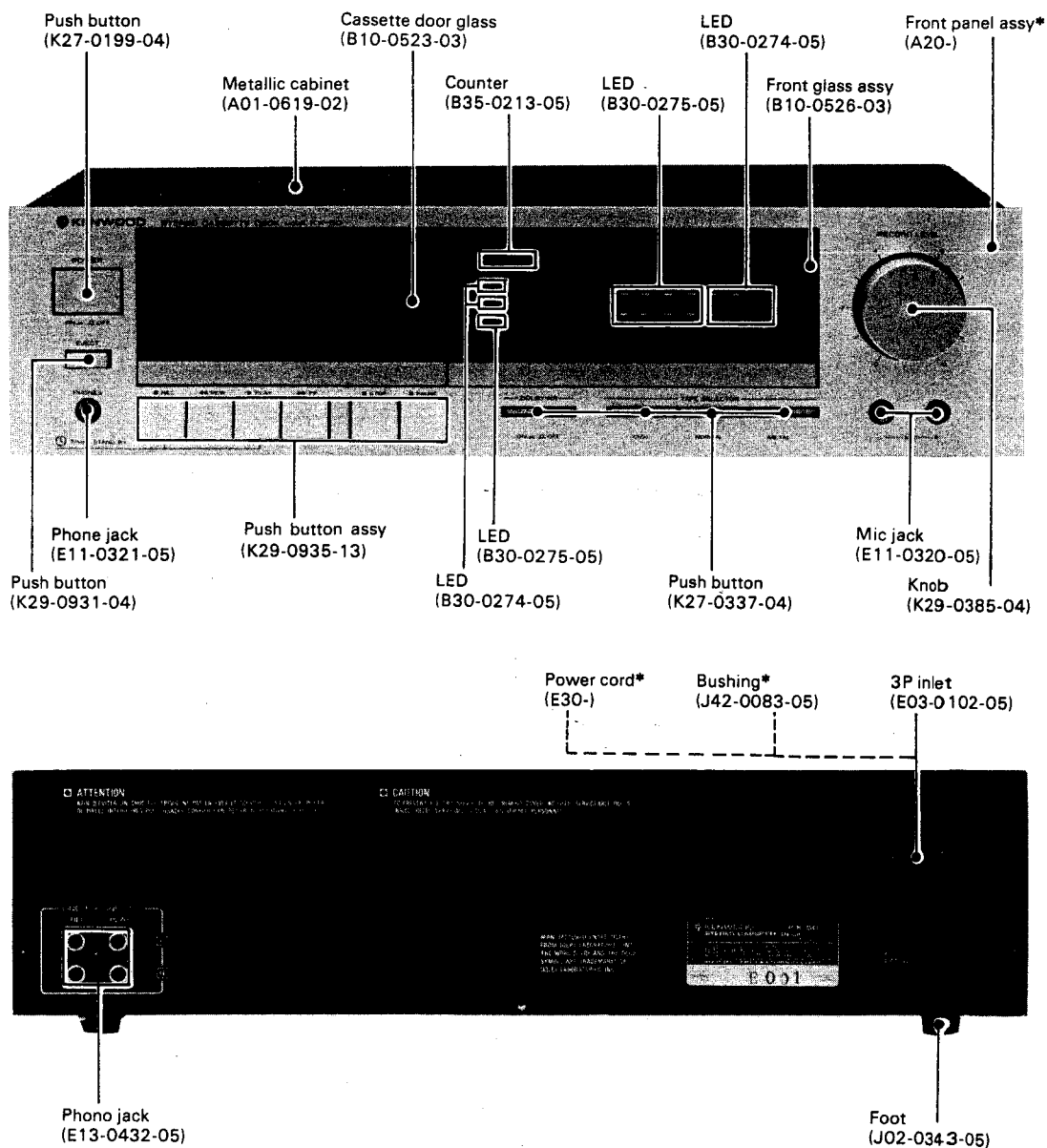




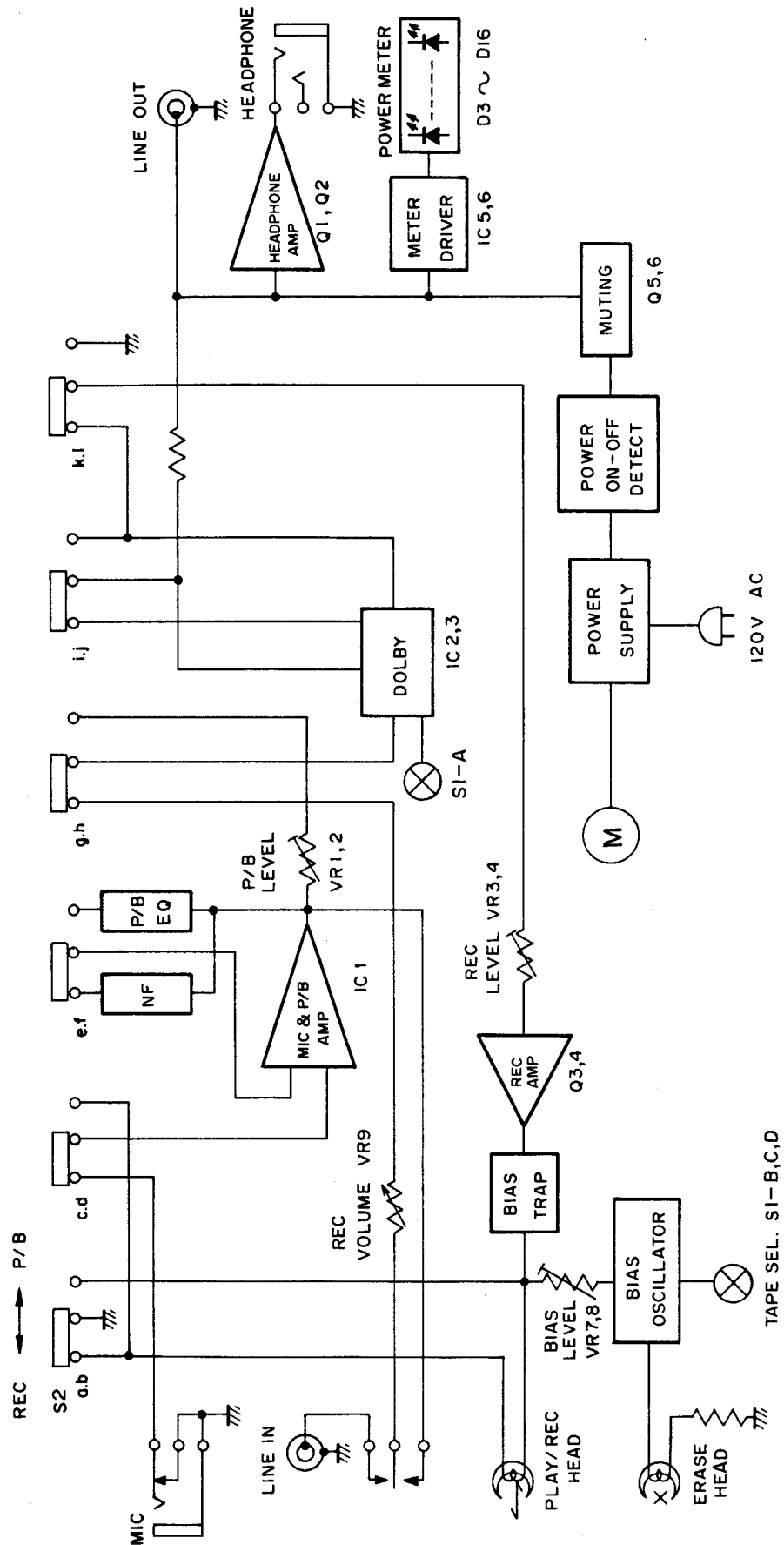
KX-50

STEREO CASSETTE DECK



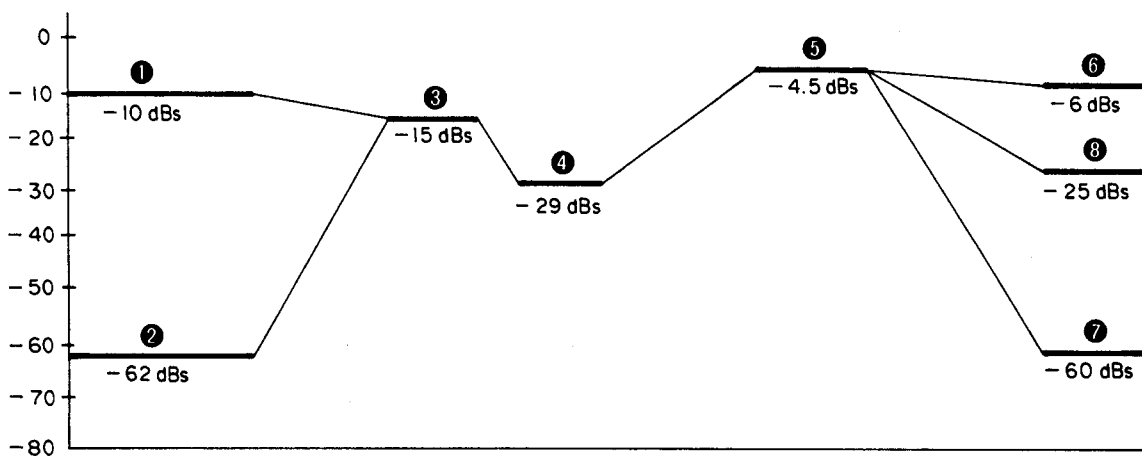
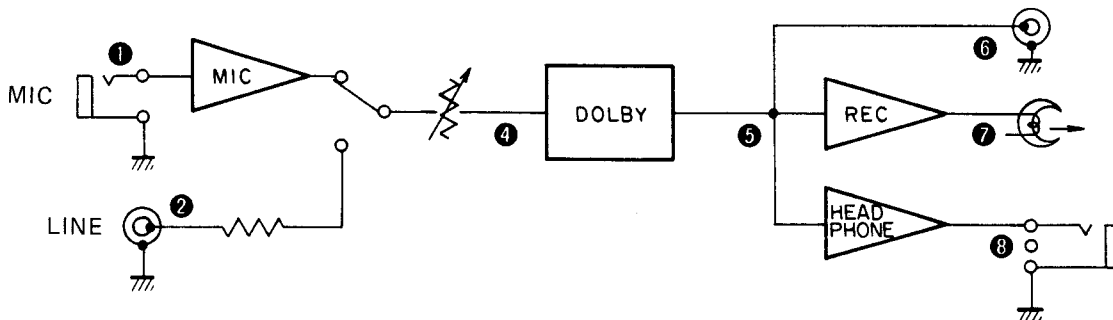
*Refer to parts list on page 10.

BLOCK DIAGRAM

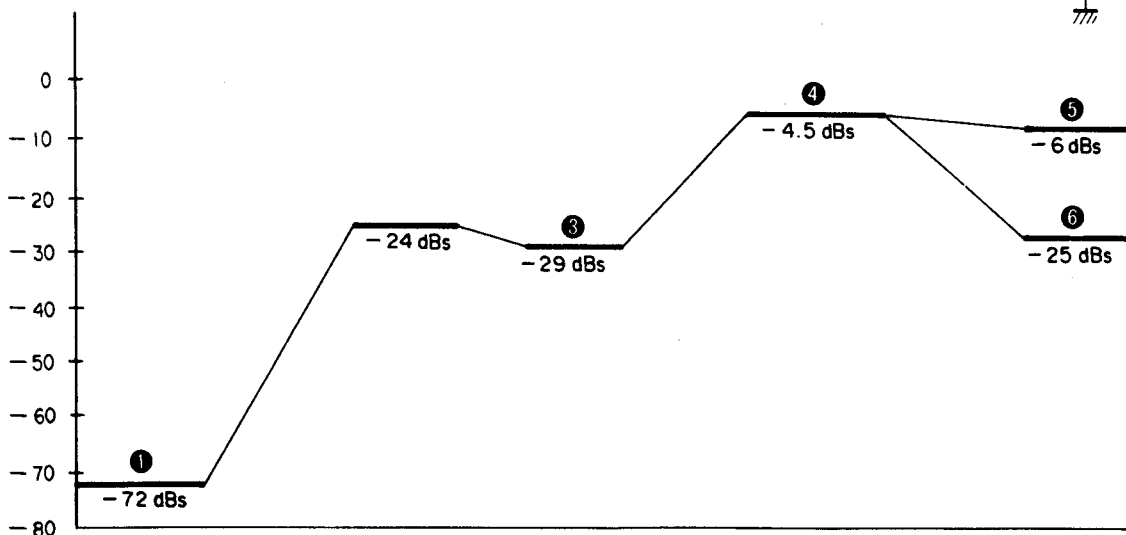
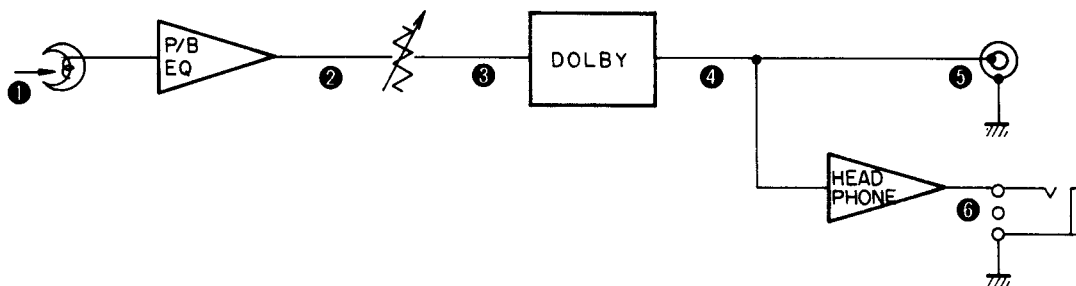


LEVEL DIAGRAM

RECORD : 1 KHz 0 dBs = 0.775 V



PLAYBACK : TEST TAPE MTT-216 315 Hz 0 dBs



ADJUSTMENT

1. Test Instruments

- AC voltmeter (High input impedance)
- Audio signal generator: AG
- Oscilloscope
- Frequency counter
- Wow and flutter meter
- Weighting filter
(ASA A characteristic with NAB curve)
- Band pass filter (Center frequency: 100 Hz, 1 kHz:
Attenuation: 18 dB/oct. or more)
- Cassette type torque gage (TW-2111: T99-0208-00)
- Spring balance
- Head demagnetizer
- Cleaning tape (T93-0014-05)

2. Test Tapes

- Test tapes for recording system adjustment
NORMAL:
MAXELL UD-XL1 (T93-0013-15)
CHROME (for measurement):
TDK AC-511 (T93-0010-05) or SAC-60
METAL: TDK AC-701 (T93-0018-00)
- Test tape for playback measurement
TEAC MTT-111 (Tape speed, azimuth) (T93-0015-00)
TEAC MTT-216 (Frequency characteristic) (T93-0016-00)
TEAC MTT-216R (Frequency characteristic) (T93-0017-00)
Mirror tape (T93-0021-00)

3. Notes for Adjustments and Measurements

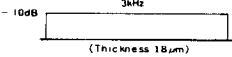


- Load resistance:** A pure resistance load of 100 k Ω should be connected to the LINE OUTPUT terminal.
- Standard level:** 0 dBs = 0.775V
- The electrical system should be adjusted by dividing it into playback and recording.
Adjustment of recording requires perfect performance of the playback system.
No special adjustment should be required unless inner components are replaced.

- When the head is replaced, its stray magnetism must be completely erased by the demagnetizer prior to mounting the tape.
- Unless otherwise designated, measurement should be carried out with the Dolby NR switch off.

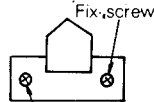
4. Meaning of Technical Word

- Standard playback condition:** The state obtained by reproducing the reference level 315 Hz signal (160 pWb/mm) of the test tape and by adjusting the playback level so that the standard output level (-6 dBs = 0.3875V) can be obtained at the LINE OUTPUT terminal.
- Standard recording level:** A level to obtain residual magnetic flux of 160 pWb/mm on the standard recording tape, which is 4 dB below the level 315 Hz, 0 dB (250 pWb/mm) of the test tape (MTT-216R).
- Standard input level:** The standard input level necessary for obtaining the normal recording level. The levels at respective input jacks are as specified below. However 80k Ω resistor should be inserted in the input of the DIN connector in series.
MIC INPUT -62 dBs (0 VU)
LINE INPUT -10 dBs (0 VU)
DIN INPUT -24 dBs (0 VU)
- Standard recording condition:** The state obtained by applying the 1 kHz signal to the LINE INPUT jack at the normal input level (-10 dBs) and by adjusting the RECORD LEVEL volume control so that recording can be carried out at the normal recording level.
- Standard output level:** The standard signal level obtained at the LINE OUTPUT jack when the reference level 315 Hz signal is reproduced from the test tape.
MTT-216R 315 Hz (250 pWb/mm)
Output level: 4 dBs
MTT-216 315 Hz (160 pWb/mm)
Output level: 0 dBs

TEST TAPE SPECIFICATION

MODEL	TITLE	TIME CONSTANT	DESCRIPTION		APPLICATION
			FREQ/LEVEL	PROGRAM	
MTT-111	FLUTTER	—	3 kHz -10 dB	 30 Min.	Tape Speed Test Wow and Flutter Test
MTT-116R (MTT-216R)	FREQUENCY	1590 μ s and 120 μ s	40 Hz ~ 10 kHz 0 dB / -10 dB 0 dB DIN REFERENCE LEVEL		Frequency Response Test
MTT-116U (MTT-216)	FREQUENCY	3180 μ s and 120 μ s	31.5 Hz ~ 14 kHz 0 dB / -20 dB 0 dB DIN REFERENCE LEVEL -4 dB		Frequency Response Test

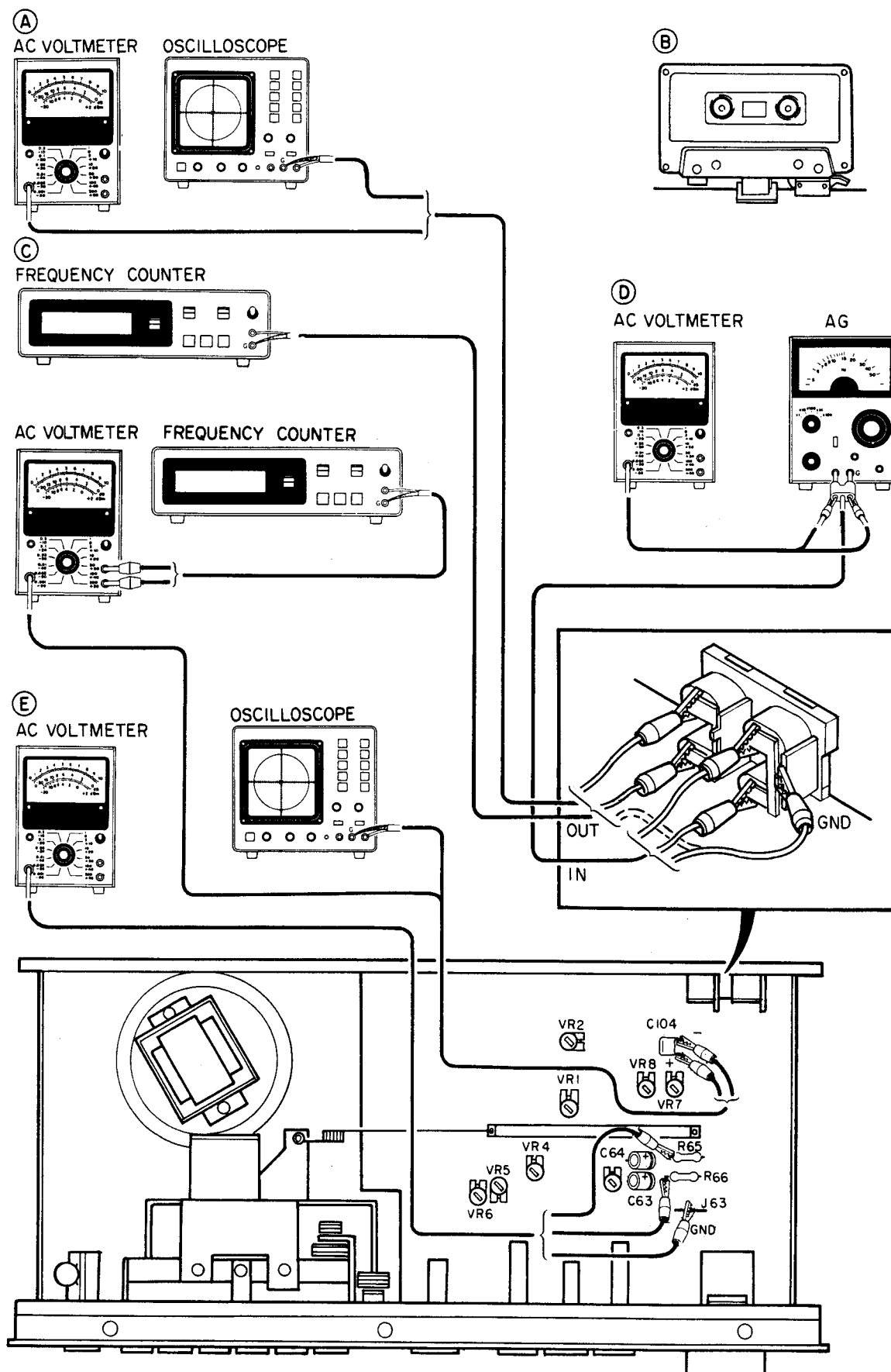
ADJUSTMENT

Step	Item	Input setup	Output setup	Cassette deck setting	Parts to be adjusted		Adjustment
					L	R	
I. Adjusting REC/PLAY head							
1.	Demagnetization and cleaning	—	—	Power: OFF	REC/PLAY HEAD erase head, capstan, pinch roller		Demagnetize the REC/PLAY head with a head demagnetizer or a cassette type demagnetizer. Clean the REC/PLAY head, erase head, capstan and pinch roller using an applicator soaked with alcohol.
2.	Fine adjustment of head azimuth	—	Ⓐ	Ⓑ MTT-216R, 10kHz, -20dB PLAY DOLBY: OFF TAPE SEL: NORMAL			Adjust screw so that the maximum output is obtained
Check azimuth of the head again, then lock the screws with adhesive.							
II. Printed circuit board adjustment							
1.	Tape speed	—	Ⓒ	Ⓑ MTT-111 PLAY:	PC trimming potentiometer in the DC motor.		Adjust the PC trimming potentiometer so that the reproduced frequency becomes 3000 Hz.
2.	Playback level	—	Ⓐ	Ⓑ MTT-216 (MTT-116U) 315 Hz, 0 dB PLAY OUTPUT: LINE OUT DOLBY: OFF TAPE SEL: NORMAL	VR1	VR2	Adjust VR1 (VR2) so that the output of -6 dBs is obtained.
					X28-1390-**		
3.	Record current	Ⓓ 1 kHz -10 dBs	ditto	Ⓑ UD-XL1 REC DOLBY: OFF INPUT: LINE IN TAPE SEL: NORMAL Adjust the RECORD volume control so that the monitor output becomes -6 dBs and perform recording then playback.	VR3	VR4	Adjust VR3 (VR4) so that the playback output becomes -6 dBs. The output increases as the VRs are turned clockwise. Note: Adjusting method Ⓔ. If an output of -6 dBs cannot be obtained connect an AC voltmeter to the junction between C63 and R65 (C64 and R66). For example, when the playback output of -3.8 dBs is obtained, read the reading of the AC voltmeter with this connection during recording. Then, adjust VR3 (VR4) so that the reading of the AC voltmeter reduces by 1.2 dB. Now, the playback output is set to -6 dBs.
					X28-1390-**		
4.	Bias current	Ⓓ 1 kHz -30 dBs 10 kHz -30 dBs	ditto	Record 1 kHz and 10 kHz consecutively with the same setting as in Step 5.	VR7	VR8	Adjust VRs so that the playback output level at 10 kHz is equal to that at 1 kHz. The bias current increases and the output level at 10 kHz drops as the VRs are turned clockwise. If the VRs are turned too much, perform Step 3, then Step 4 again.
					X28-1390-**		
5.	Peak level meter	Ⓓ 1 kHz, -10 dBs	ditto	PAUSE: ON with other setting the same as in Step 3.	VR5	VR6	Adjust to 0 VU
					X28-1390-**		

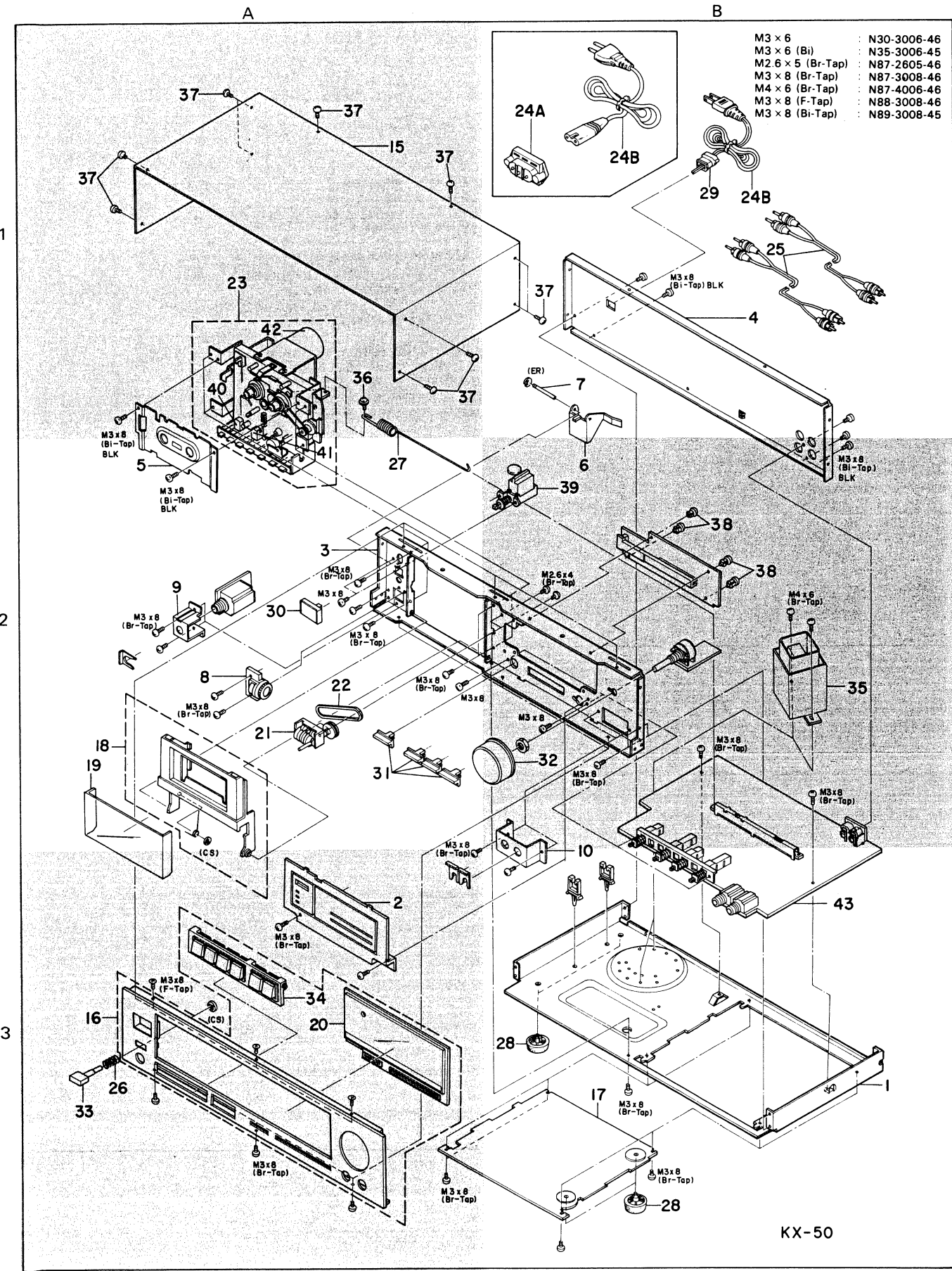
For measurements, refer to the KX-600 service manual with few modifications shown in the following.

Item	Column	For KX-50
1. Playback level (LINE OUT)	Standard and remarks	-6 dBs ±1.5 dB
9. Erase ratio	Input signal	125 Hz, -4 dBs
11. Crosstalk between tracks	Input signal	125 Hz, -10 dBs
12. Bias leak	Standard and remarks METAL	-40 dBs max.
14. Peak LED lighting level	All	Delete

ADJUSTMENT

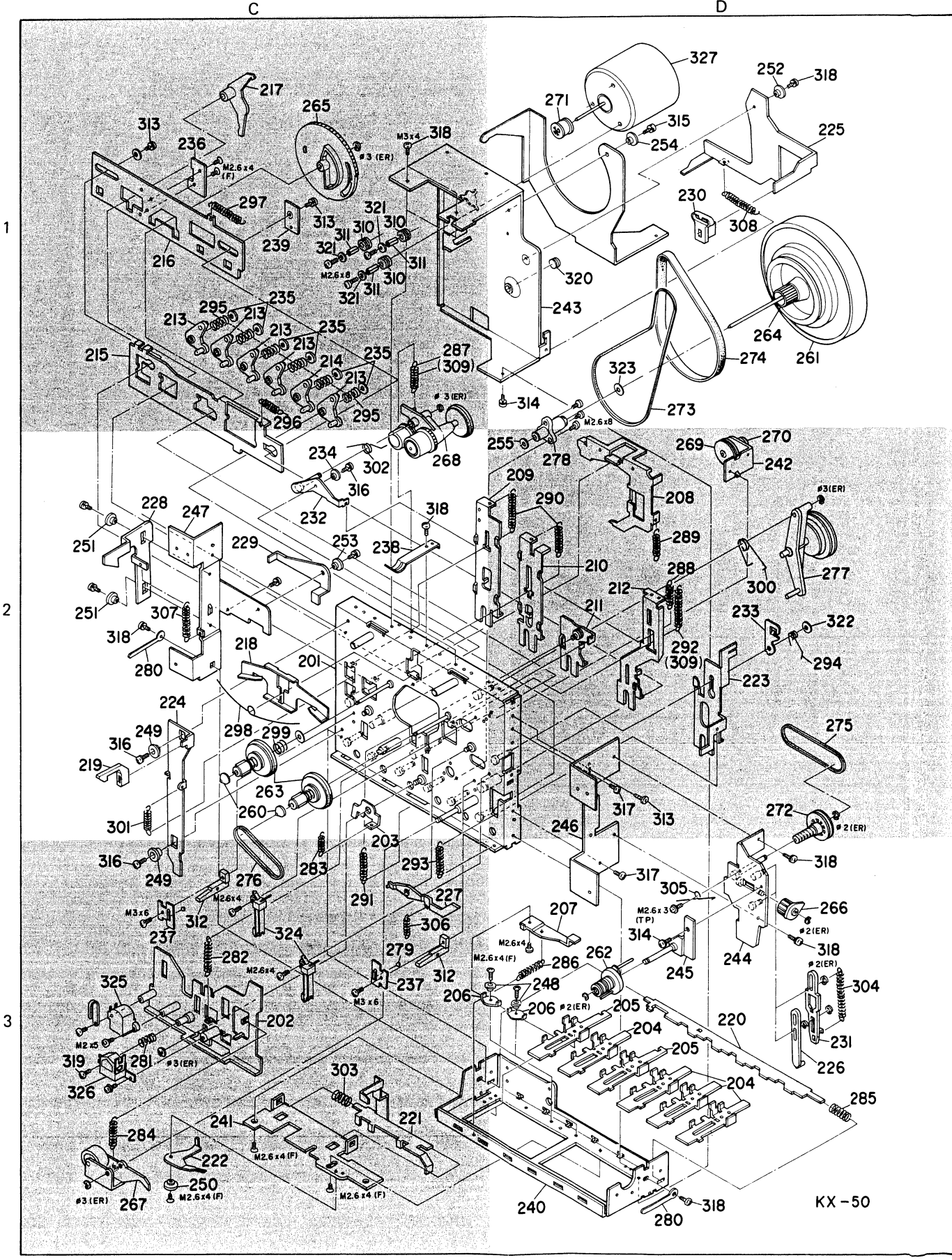


EXPLODED VIEW (UNIT)



Refer to Parts List on page 10.

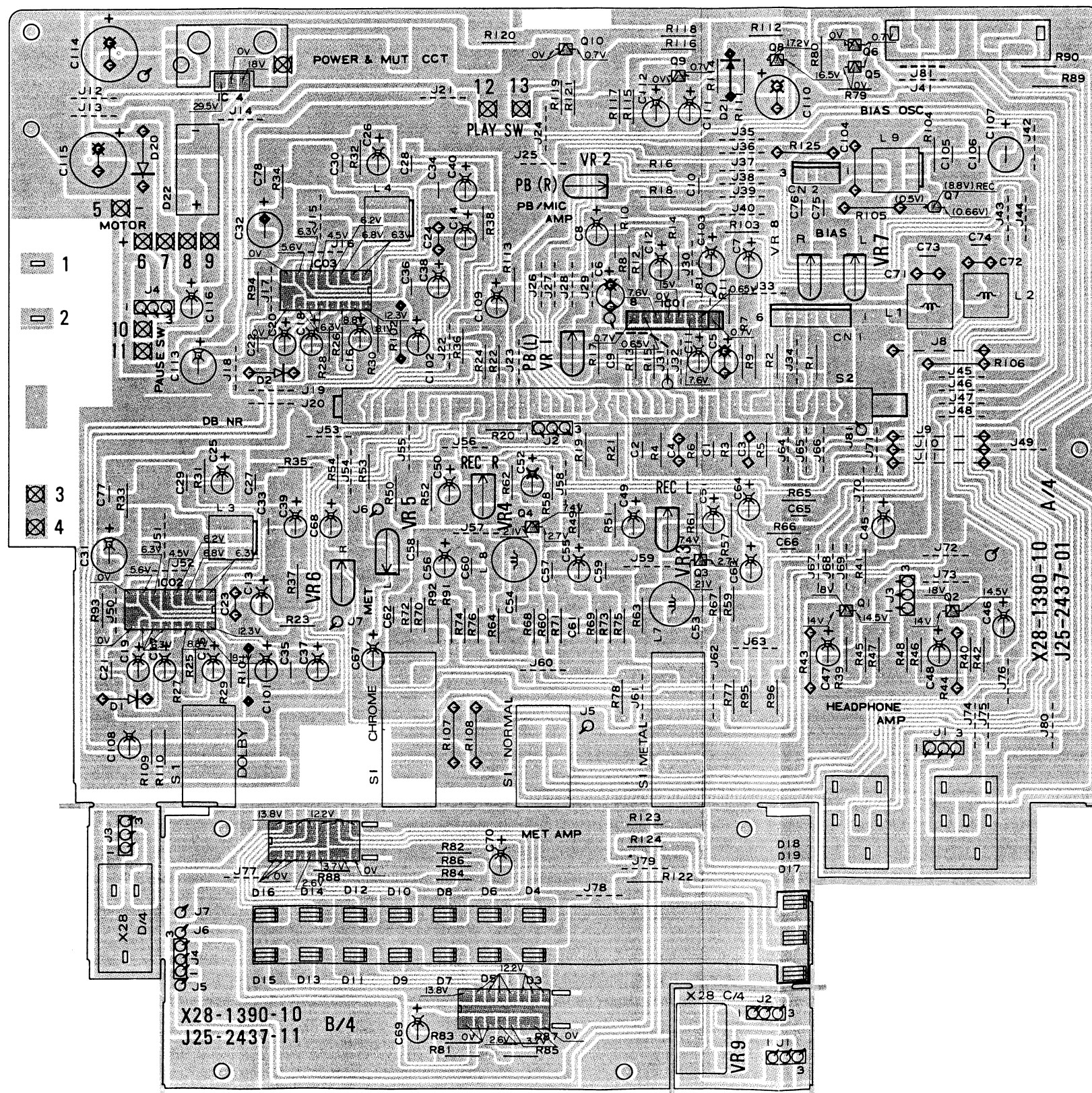
EXPLODED VIEW (MECHANISM)



Refer to Parts List on page 10.

PC BOARD

AMPLIFIER (X28-1390-**) Component Side View

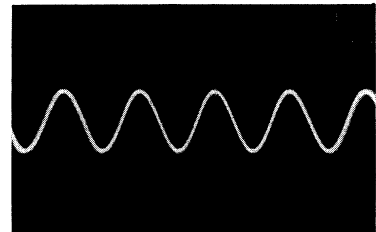


IC1 : MB3106M
IC2,3 : NE 646B
IC4 : μ PC78M 18H
IC5,6 : AN6878

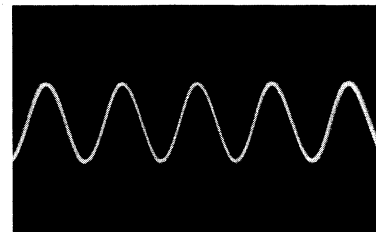
Q1~6,9,10 : 2SC945 (A) (Q,P,K) or 2SC2320 (E,F)
or 2SC1740 (Q,R) or 2SC828 (Q,R,S)
Q7 : 2SC2060Q (P,Q,R)
Q8 : 2SA733 (A) (Q,P,K) or 2SA999 (E,F)
or 2SA564A (Q,R,S)

D1,2,21 : IS2076 or IS1555 or IS2473 or ISS53
D3~10,18 : SLP-251B (GRN)
D11~17,19 : SLP-151B (RED)
D20 : W06B or ERB 01-12R
D22 : SIRBA10 (4001)

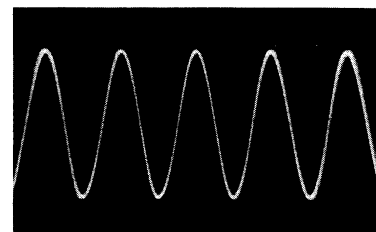
Waveforms of Bias Oscillator
(Terminal 6 of L9)



Normal: 5μs/cm
100 V/cm



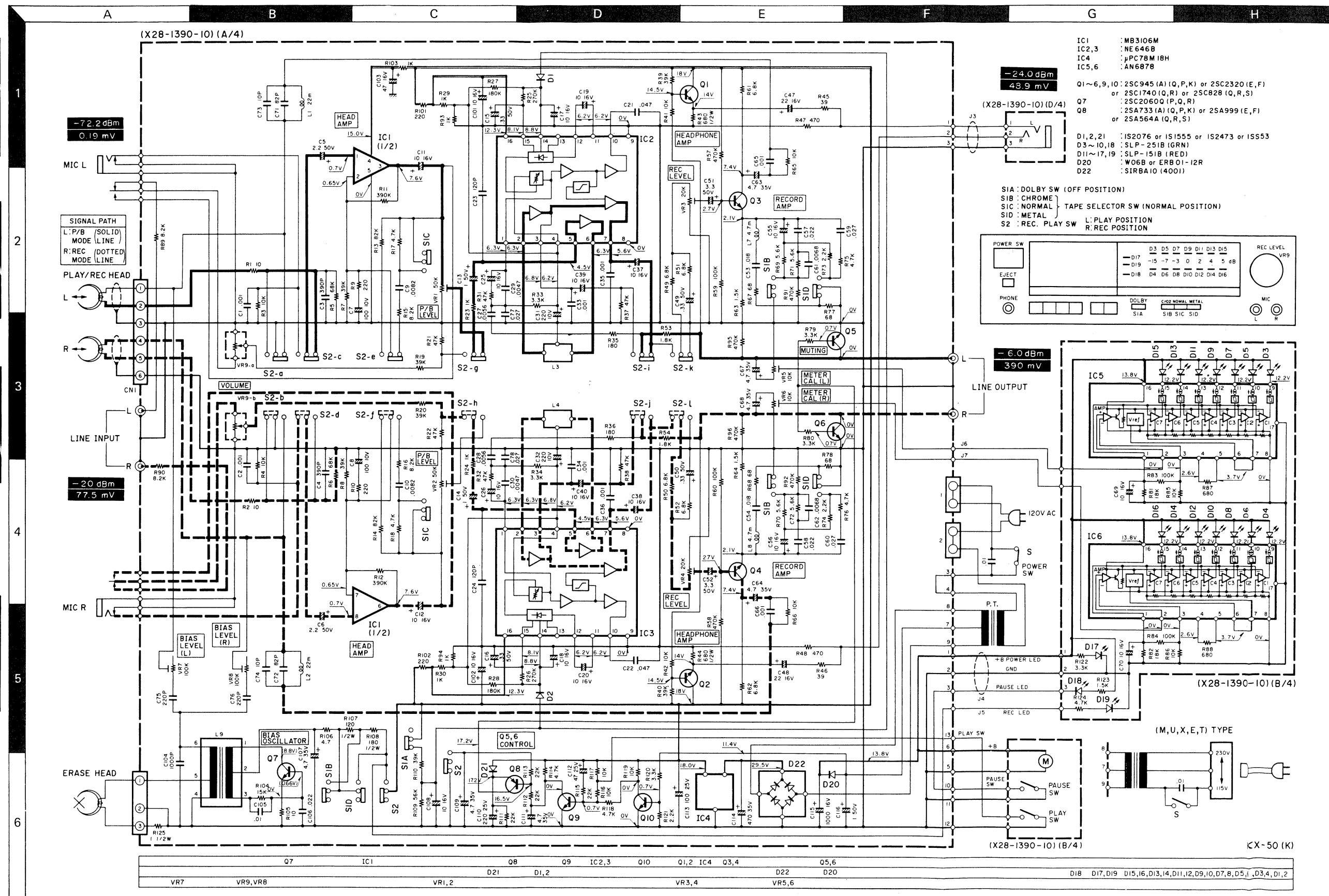
CrO₂: 5μs/cm
100 V/cm



Metal: 5μs/cm
100V/cm

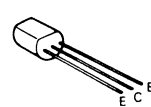
Semiconductor Substitutions

Name	Substitutions
NE646B	NE645
μPC78M18H	LM78M18, μPA78M18
2SC945(A)(Q,P,K)	2SC2320(E,F), 2SC1740(Q,R), 2SC828(Q,R,S)
2SA733(A)(Q,P,K)	2SA999(E,F), 2SA564A(Q,R,S)
1S2076	1S1555, 1S2473, 1S553
W06B	ERB01-12R, V03C

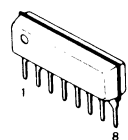


2SC945
2SC2320
2SC1740
2SC828

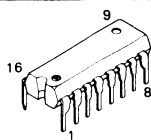
2SC2060
2SA733(a)
2SA999
2SA564A



MB3106M

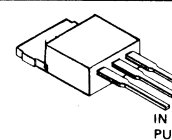


NE646B
NE645

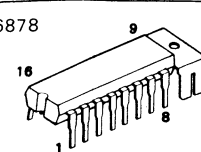


μPC78M18H
LM78M18
μPA78M18

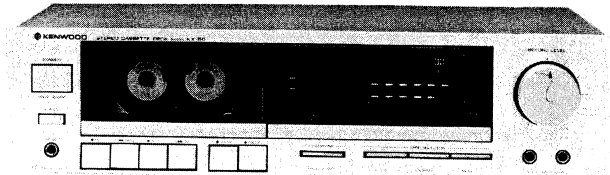
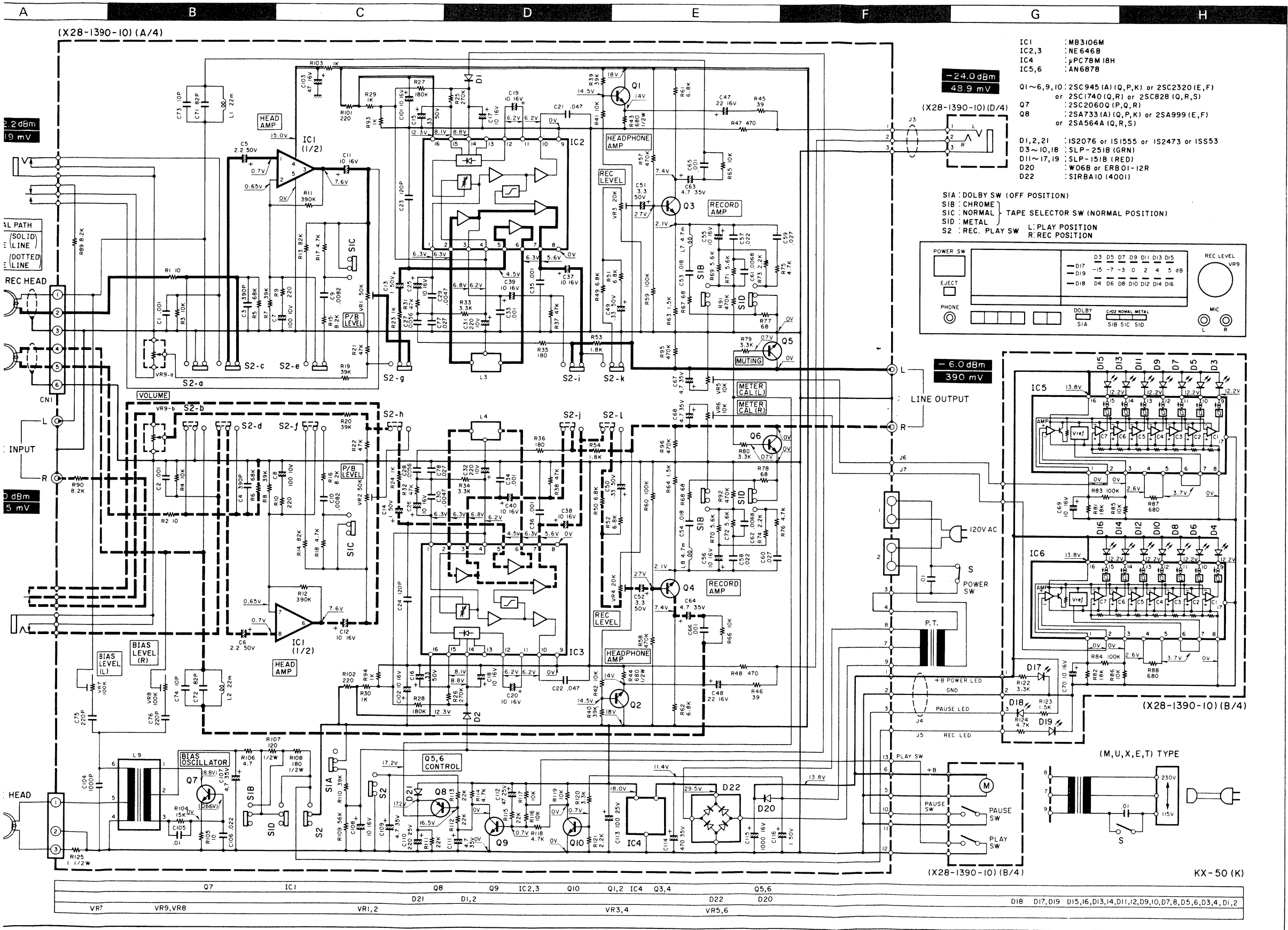
μPC78M18H
LM78M18
μPA78M18



AN6878



DC voltages are measured by a VOM with 25 kΩ/V input impedance.



SPECIFICATIONS

Type	Front Loading Stereo Cassette Deck with Dolby NR System
Track System	4-Track, 2-Channel Stereo/Mono. Recording/Playback
Recording System	AC Bias System (Bias Frequency: 105 kHz)
Erasing System	AC System
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and Playback Head × 1 (Hard Permalloy) Erase Head × 1 (Ferrite)
Motor	Electronically Controlled DC Motor
Fast Winding Time	Approx. 105 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 16,000 Hz (35 Hz to 15,000 Hz, ±3 dB)
CrO ₂ Tape	20 Hz to 16,000 Hz (35 Hz to 15,000 Hz, ±3 dB)
Metal Tape	20 Hz to 16,000 Hz (35 Hz to 15,000 Hz, ±3 dB)
Signal to Noise Ratio:	
Dolby NR ON (Over 5 kHz)	67 dB (Normal and CrO ₂ Tape), 68 dB (Metal Tape)
Dolby NR OFF	57 dB (Normal and CrO ₂ Tape), 58 dB (Metal Tape)
Harmonic Distortion	Less than 1.0% (at 1 kHz, 0 VU with Metal Tape)
Wow and Flutter	0.05% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE × 2	77.5 mV/50 kohms
Microphones × 2	0.19 mV/10 kohms
Output Level/Load Impedance:	
LINE × 2	390 mV/100 kohms
Headphones × 1	489 mV/8 or 16 ohms
Built-in Features	Dolby Noise Reduction System Three Position Tape Selector (Normal/CrO ₂ /Metal) 7-LED Peak Level Meters (−15 dB to +5 dB) Full Auto Shut Off Mechanism in all Modes LED Recording, Pause and Power Indicators Timer Standby Mechanism Three Digit Tape Counter Two Microphone Jacks, Headphone Jack
Power Requirements	AC 120V, 60 Hz, U.S.A. and Canada Models AC 120V/220-240V (Switchable), 50/60 Hz, Other Countries
Power Consumption	13.0 watts
Dimensions	W: 440 mm (17-5/16") H: 119 mm (4-11/16") D: 237 mm (9-5/16") 4.5 kg (9.9 lbs)
Weight	
Supplied Accessories	Audio Connection Cables × 2 Head Cleaning Set × 1
Reference Tapes	Normal: MAXELL XLI C-60 CrO ₂ : TDK SA C-60 Metal: TDK MA-R C-60

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

PARTS LIST

INSTRUCTION FOR PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考
②	1 3A	MAIN CHASSIS ASS'Y	
①	2 2A	FRONT CHASSIS	
	3 2A	FLUOR DISPLAY HOLDER	
	4 1A, 1B	FRONT PANEL	
	5 1A	FRONT PANEL ASS'Y	
⑤	PS3	PUSH SW.(SELECTOR) 111	
	RS1	ROTARY SW.(FUNC.) 105	
	RL1	RELAY	
		FIG.104	

① Exploded view drawing No.

② Position in exploded view.

③ Symbol of new parts

④ Area to which parts are shipped. Example: A20-1390-13 is the part No. of FRONT PANEL ASS'Y for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.

⑤ Reference No. in schematic diagram.

⑥ Abbreviation of "ceramic capacitor"

All capacitors and resistors are listed using abbreviations. Abbreviations

* Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO Electrolytic capacitor

LL-ELEC Low leak electrolytic capacitor

NP-ELEC Non-pole electrolytic capacitor

MICA Mica capacitor

POLYSTY Polystyrene capacitor

MYLAR Mylar capacitor

CERAMIC Ceramic capacitor

TANTAL Tantalum capacitor

MF Metallized film capacitor

MP Metallized paper capacitor

OIL Oil capacitor

The unit "UF" is used in lieu of "μF"

* Abbreviations of resistors (Parts No. with initial letters "R").

RC Carbon composition resistor

RD Carbon film resistor

FL-PROOF RD Flame-proof carbon film resistor

RW Wire wound power resistor

FL-PROOF RS Flame-proof metal oxide film resistor

RN Metal film resistor

FUSE-RESIST Resistor with fuse function

2B Rated wattage 1/8W

2E Rated wattage 1/4W

2H Rated wattage 1/2W

3A Rated wattage 1W

3D Rated wattage 2W

3F Rated wattage 3W

3G Rated wattage 4W

3H Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C ±0.25pF (Used for capacitors only)

D ±0.5pF (Used for capacitors only)

F ±1%

G ±2%

J ±5%

K ±10%

M ±20%

Z +80%, -20%(Used for capacitors only)

P +100%, -0%(Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考
KX-50 UNIT			
1 3B	-	MAIN CHASSIS	
2 3A	-	DRESSING PANEL	
3 2A	-	SUB PANEL	
4 1B	-	REAR PANEL	
5 2A	-	DRESSING PLATE	
6 2B	-	EJECT LEVER	
7 1B	-	SHAFT	
8 2A	-	DAMPER	
9 2A	-	MOUNT HARDWARE(PHONE)	
10 3B	-	MOUNT HARDWARE(MIC)	
15 1A	A01-0619-02	METALLIC CABINET	*K
16 3A	A20-2028-03	FRONT PANEL ASSY	PU
16 3A	A20-2028-03	FRONT PANEL ASSY	MX
16 3A	A20-2028-03	FRONT PANEL ASSY	ET
16 3A	A20-2029-03	FRONT PANEL ASSY	
16 3A	A20-2030-03	FRONT PANEL ASSY	*E
17 3B	A40-0556-03	BOTTOM PLATE	
18 2A	A53-0239-02	CASSETTE HOLDER ASSY	
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	U
-	B46-0063-13	WARRANTY CARD	U
-	B46-0064-20	WARRANTY CARD	X
-	B50-2457-00	INSTRUCTION MANUAL	*K
-	B50-2458-00	INSTRUCTION MANUAL	U
-	B50-2458-00	INSTRUCTION MANUAL	*P
-	B50-2459-00	INSTRUCTION MANUAL	MX
-	B50-2460-00	INSTRUCTION MANUAL	*M
-	B50-2461-00	INSTRUCTION MANUAL	*E
-	B50-2462-00	INSTRUCTION MANUAL	*T
-	B59-0018-00	SERVICE STATIONS' LIST	*U
19 2A	B10-0523-03	CASSETTE DOOR GLASS	*
20 3A	B10-0526-03	FRONT GLASS ASSY	*
21 2A	B35-0213-05	COUNTER	*
22 2A	D16-0226-04	BELT	
23 1A	D40-0519-05	MECHANISM ASSY	*
24A 1B	E03-0102-05	3P INLET	UM
24A 1B	E03-0102-05	3P INLET	XE
24A 1B	E03-0102-05	3P INLET	T
24B 1B	E30-0181-05	POWER CORD	KP
24B 1B	E30-1305-15	POWER CORD	UM
24B 1B	E30-1328-05	POWER CORD	T
24B 1B	E30-1329-05	POWER CORD	E
24B 1B	E30-1342-05	POWER CORD	X
25 1B	E30-0505-05	AUDIO CORD	*
26 3A	G01-1080-04	COILED SPRING(EJECT)	
27 2A	G01-1082-04	SPRING(REC/PLAY SW.)	
-	H01-2471-04	CARTON BOX	*K
-	H01-2471-04	CARTON BOX	PU
-	H01-2471-04	CARTON BOX	MX
-	H01-2471-04	CARTON BOX	E
-	H01-2474-04	CARTON BOX	*T
-	H10-2296-02	POLYSTYRENE FIXTURE	*
-	H20-1107-04	COVER	*K
-	H20-1107-04	COVER	PU
-	H20-1107-04	COVER	XE
-	H20-1107-04	COVER	T

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考
-	H20-1109-04	COVER	*M
-	H25-0078-04	BAG	
28 3B	J02-0343-05	FOOT X4	
29 1B	J42-0083-05	BUSHING(POWER CORD)	*K
29 1B	J42-0083-05	BUSHING(POWER CORD)	P
30 2A	K27-0199-04	PUSH BUTTON(POWER)	*
31 2A	K27-0337-04	PUSH BUTTON(DOLBY,SEL)	*
32 2B	K29-0385-04	KNOB(REC LEVEL)	*
33 3A	K29-0931-04	PUSH BUTTON(EJECT)	*
34 3A	K29-0935-13	PUSH BUTTON ASSY	*
35 2B	L01-6411-05	POWER TRANSFORMER	*K
35 2B	L01-6411-05	POWER TRANSFORMER	P
35 2B	L01-6414-15	POWER TRANSFORMER	*U
35 2B	L01-6414-15	POWER TRANSFORMER	MX
35 2B	L01-6444-05	POWER TRANSFORMER	ET
36 1A	N09-0287-05	SCREW M3X8	*
37 1A, 1B	N09-0373-05	SCREW M3X6(BI-TAP)SLV	*
38 2B	N29-0035-05	PUSH RIVET(LED)	
39 2B	S40-1035-05	PUSH SWITCH(POWER)	*K
39 2B	S40-1035-05	PUSH SWITCH(POWER)	P
39 2B	S40-1037-05	PUSH SWITCH(POWER)	*U
39 2B	S40-1037-05	PUSH SWITCH(POWER)	MX
39 2B	S40-1037-05	PUSH SWITCH(POWER)	ET
40 1A	T32-0010-05	ERASE HEAD	*
41 2A	T34-0016-05	REC/PLAYBACK HEAD	*
42 1A	T42-0108-05	DC MOTOR	*
-	W01-0301-05	HEAD CLEANING SWAB	
43 2B, 3B	X28-1390-10	AMPLIFIER PC BOARD ASSY	*K
43 2B, 3B	X28-1390-10	AMPLIFIER PC BOARD ASSY	P
43 2B, 3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	*U
43 2B, 3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	MX
43 2B, 3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	ET
AMPLIFIER (X28-1390-**)			
D3 -10	B30-0275-05	LED(GREEN)	
D11 -17	B30-0274-05	LED(RED)	
D18	B30-0275-05	LED(GREEN)	
D19	B30-0274-05	LED(RED)	
C1 ,2	C45-1710-25	MYLAR 0.001UF J	
C2 ,4	C52-1739-16	CERAMIC 390PF K	
C5 ,6	C25-6522-57	LL-ELEC 2.2UF 35WV	
C7 ,8	C24-1010-79	ELECTRO 100UF 10WV	
C9 ,10	C45-1782-25	MYLAR 0.0082UF J	
C11 ,12	C24-1210-69	ELECTRO 10UF 16WV	
C13 ,14	C26-1710-57	NP-ELEC 1UF 50WV	
C15 ,16	C25-1733-47	LL-ELEC 0.33UF 50WV	
C17 ,18	C25-1710-47	LL-ELEC 0.1UF 50WV	
C19 ,20	C24-1210-69	ELECTRO 10UF 16WV	
C21 ,22	C45-1747-35	MYLAR 0.047UF J	
C23 ,24	C65-1712-15	CERAMIC 120PF J	
C25 ,26	C24-1210-69	ELECTRO 10UF 16WV	
C27 ,28	C45-1756-25	MYLAR 0.0056UF J	
C29 ,30	C45-1747-25	MYLAR 0.0047UF J	
C31 ,32	C24-1022-71	ELECTRO 220UF 10WV	
C33 ,36	C45-1710-25	MYLAR 0.001UF J	
C37 ,40	C24-1210-69	ELECTRO 10UF 16WV	
C45 ,46	C24-1210-69	ELECTRO 10UF 16WV	
C47 ,48	C24-1222-61	ELECTRO 22UF 16WV	
C49 ,50	C25-1733-47	LL-ELEC 0.33UF 50WV	
C51 ,52	C25-1733-57	LL-ELEC 3.3UF 50WV	
C53 ,54	C45-1718-35	MYLAR 0.018UF J	

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考	Ref. 参照
C55 ,56	C24-1210-69	ELECTRO 10UF 16WV		IC1
C57 ,58	C45-1722-35	MYLAR 0.022UF J		IC2
C59 ,60	C45-1727-35	MYLAR 0.027UF J		IC4
C61 ,62	C45-1768-25	MYLAR 0.0068UF J		IC5
C63 ,64	C24-6547-57	ELECTRO 4.7UF 35WV		Q1
C65 ,66	C45-1710-25	MYLAR 0.001UF J		Q1
C67 ,68	C24-6547-57	ELECTRO 4.7UF 35WV		Q1
C69 ,70	C24-1210-69	ELECTRO 10UF 16WV		Q1
C71 ,72	C71-1782-05	CERAMIC 82PF J		Q7
C73 ,74	C71-1710-02	CERAMIC 10PF D		Q8
C75 ,76	C71-1722-15	CERAMIC 220PF J		Q8
C77 ,78	C45-1727-35	MYLAR 0.027UF J		Q8
C101 ,102	C24-1210-69	ELECTRO 10UF 16WV		Q9
C103	C24-1247-61	ELECTRO 47UF 16WV		Q9
C104	C91-0343-05	MYLAR 0.001UF 630WV	*	Q9
C105	C45-1710-35	MYLAR 0.01UF J		Q9
C106	C45-1722-35	MYLAR 0.022UF J		201
C107	C24-6547-57	ELECTRO 4.7UF 35WV		202
C108	C24-1210-69	ELECTRO 10UF 16WV		203
C109	C24-6547-57	ELECTRO 4.7UF 35WV		204
C110	C24-1422-71	ELECTRO 220UF 25WV		205
C111	C24-6547-57	ELECTRO 4.7UF 35WV		206
C112	C24-1447-61	ELECTRO 47UF 25WV		207
C113	C24-1410-71	ELECTRO 100UF 25WV		208
C114	C24-6547-71	ELECTRO 470UF 35WV		209
C115	C24-1210-81	ELECTRO 1000UF 16WV		210
C116	C26-1710-57	NP-ELEC 1UF 50WV		211
101 3B	E11-0320-05	PHONE JACK(MICROPHONES)	*	212
102 2A	E11-0321-05	PHONE JACK(HEADPHONE)	*	213
103 2B	E13-0432-05	PHONO JACK		214
L1 ,2	L40-2235-21	INDUCTOR 22MH		215
L3 ,4	L79-0312-05	FILTER (DOLBY)	*	216
L7 ,8	L40-4725-21	INDUCTOR 4.7MH		217
L9	L32-0513-05	OSCILLATING COIL		218
R43 ,44	R43-1368-15	FL-PROOF RD680 J 2H		219
R101 ,102	R43-1322-15	FL-PROOF RD220 J 2H		220
R105	R43-1310-05	FL-PROOF RD10 J 2H		221
R106	R92-0514-05	FUSE RESIST 4.7 2E		222
R107	R43-1312-15	FL-PROOF RD120 J 2H		223
R108	R43-1318-15	FL-PROOF RD180 J 2H		224
R125	R43-1301-05	FL-PROOF RD1 J 2H		225
VR1 ,2	R12-4302-05	TRIMMING POT.(50KB)		226
VR3 ,4	R12-3301-05	TRIMMING POT.(20KB)		227
VR5 ,6	R12-3302-05	TRIMMING POT.(10KB)		228
VR7 ,8	R12-5302-05	TRIMMING POT.(100KB)		229
VR9	R06-5302-05	POTENTIOMETER(100KAX2)		230
S1	S42-4305-05	PUSH SWITCH(DOLBY,SEL)	*	231
S2	S31-0310-05	SLIDE SWITCH(REC/PLAY)	*	232
D1 ,2	V11-0076-05	1S1555		233
D1 ,2	V11-0271-05	1S2076		234
D1 ,2	V11-1200-80	1S553		235
D1 ,2	V11-7700-30	1S2473		236
D20	V11-0295-05	W068		237
D20	V11-7100-60	ERB12-01R		238
D21	V11-0076-05	1S1555		239
D21	V11-0271-05	1S2076		240
D21	V11-1200-80	1S553		241
D21	V11-7700-30	1S2473		242
D22	V11-1301-50	SIRBA10F(4001)		243
				244
				245

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
KX-50 UNIT			
1 3B	-	MAIN CHASSIS	
2 3A	-	DRESSING PANEL	
3 2A	-	SUB PANEL	
4 1B	-	REAR PANEL	
5 2A	-	DRESSING PLATE	
6 2B	-	EJECT LEVER	
7 1B	-	SHAFT	
8 2A	-	DAMPER	
9 2A	-	MOUNT HARDWARE(PHONE)	
10 3B	-	MOUNT HARDWARE(MIC)	
15 1A	A01-0619-02	METALLIC CABINET	*K
16 3A	A20-2028-03	FRONT PANEL ASSY	PU
16 3A	A20-2028-03	FRONT PANEL ASSY	MX
16 3A	A20-2028-03	FRONT PANEL ASSY	ET
16 3A	A20-2029-03	FRONT PANEL ASSY	*T
16 3A	A20-2030-03	FRONT PANEL ASSY	*E
17 3B	A40-0556-03	BOTTOM PLATE	*
18 2A	A53-0239-02	CASSETTE HOLDER ASSY	*
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	U
-	B46-0063-13	WARRANTY CARD	U
-	B46-0064-20	WARRANTY CARD	X
-	B50-2457-00	INSTRUCTION MANUAL	*
-	B50-2458-00	INSTRUCTION MANUAL	*K
-	B50-2458-00	INSTRUCTION MANUAL	U
-	B50-2459-00	INSTRUCTION MANUAL	*P
-	B50-2459-00	INSTRUCTION MANUAL	MX
-	B50-2460-00	INSTRUCTION MANUAL	*M
-	B50-2461-00	INSTRUCTION MANUAL	*E
-	B50-2462-00	INSTRUCTION MANUAL	*T
-	B59-0018-00	SERVICE STATIONS'LIST	*U
19 2A	B10-0523-03	CASSETTE DOOR GLASS	*
20 3A	B10-0526-03	FRONT GLASS ASSY	*
21 2A	B35-0213-05	COUNTER	*
22 2A	D16-0226-04	BELT	*
23 1A	D40-0519-05	MECHANISM ASSY	*
24A 1B	E03-0102-05	3P INLET	UM
24A 1B	E03-0102-05	3P INLET	XE
24A 1B	E03-0102-05	3P INLET	T
24B 1B	E30-0181-05	POWER CORD	KP
24B 1B	E30-1305-15	POWER CORD	UM
24B 1B	E30-1328-05	POWER CORD	T
24B 1B	E30-1329-05	POWER CORD	E
24B 1B	E30-1342-05	POWER CORD	X
25 1B	E30-0505-05	AUDIO CORD	*
26 3A	G01-1080-04	COILED SPRING(EJECT)	
27 2A	G01-1082-04	SPRING(REC/PLAY SW.)	
-	H01-2471-04	CARTON BOX	*K
-	H01-2471-04	CARTON BOX	PU
-	H01-2471-04	CARTON BOX	MX
-	H01-2471-04	CARTON BOX	E
-	H01-2474-04	CARTON BOX	*T
-	H10-2296-02	POLYSTYRENE FIXTURE	*
-	H20-1107-04	COVER	*K
-	H20-1107-04	COVER	PU
-	H20-1107-04	COVER	XE
-	H20-1107-04	COVER	T

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
-	H20-1109-04	COVER	*M
-	H25-0078-04	BAG	
28 3B	J02-0343-05	FOOT X4	
29 1B	J42-0083-05	BUSHING(POWER CORD)	*K
29 1B	J42-0083-05	BUSHING(POWER CORD)	P
30 2A	K27-0199-04	PUSH BUTTON(POWER)	*
31 2A	K27-0337-04	PUSH BUTTON(DOLBY,SEL)	*
32 2B	K29-0385-04	KNOB(REC LEVEL)	*
33 3A	K29-0931-04	PUSH BUTTON(EJECT)	*
34 3A	K29-0935-13	PUSH BUTTON ASSY	*
35 2B	L01-6411-05	POWER TRANSFORMER	*K
35 2B	L01-6411-05	POWER TRANSFORMER	P
35 2B	L01-6414-15	POWER TRANSFORMER	*U
35 2B	L01-6414-15	POWER TRANSFORMER	MX
35 2B	L01-6444-05	POWER TRANSFORMER	ET
36 1A	N09-0287-05	SCREW M3X8	*
37 1A,1B	N09-0373-05	SCREW M3X6(6I-TAP)SLV	*
38 2B	N29-0035-05	PUSH RIVET(LED)	
39 2B	S40-1035-05	PUSH SWITCH(POWER)	*K
39 2B	S40-1035-05	PUSH SWITCH(POWER)	P
39 2B	S40-1037-05	PUSH SWITCH(POWER)	*U
39 2B	S40-1037-05	PUSH SWITCH(POWER)	MX
39 2B	S40-1037-05	PUSH SWITCH(POWER)	ET
40 1A	T32-0010-05	ERASE HEAD	*
41 2A	T34-0016-05	REC/PLAYBACK HEAD	*
42 1A	T42-0108-05	DC MOTOR	*
-	W01-0301-05	HEAD CLEANING SWAB	
43 2B,3B	X28-1390-10	AMPLIFIER PC BOARD ASSY	*K
43 2B,3B	X28-1390-10	AMPLIFIER PC BOARD ASSY	P
43 2B,3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	*U
43 2B,3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	MX
43 2B,3B	X28-1390-81	AMPLIFIER PC BOARD ASSY	ET
AMPLIFIER (X28-1390-**)			
D3 -10	B30-0275-05	LED(GREEN)	
D11 -17	B30-0274-05	LED(RED)	
D18	B30-0275-05	LED(GREEN)	
D19	B30-0274-05	LED(RED)	
C1 ,2	C45-1710-25	MYLAR 0.001UF J	
C2 ,4	C52-1739-16	CERAMIC 390PF K	
C5 ,6	C25-6522-57	LL-ELEC 2.2UF 35WV	
C7 ,8	C24-1010-79	ELECTRO 100UF 10WV	
C9 ,10	C45-1782-25	MYLAR 0.0082UF J	
C11 ,12	C24-1210-69	ELECTRO 10UF 16WV	
C13 ,14	C26-1710-57	NP-ELEC 1UF 50WV	
C15 ,16	C25-1733-47	LL-ELEC 0.33UF 50WV	
C17 ,18	C25-1710-47	LL-ELEC 0.1UF 50WV	
C19 ,20	C24-1210-69	ELECTRO 10UF 16WV	
C21 ,22	C45-1747-35	MYLAR 0.047UF J	
C23 ,24	C65-1712-15	CERAMIC 120PF J	
C25 ,26	C24-1210-69	ELECTRO 10UF 16WV	
C27 ,28	C45-1756-25	MYLAR 0.0056UF J	
C29 ,30	C45-1747-25	MYLAR 0.0047UF J	
C31 ,32	C24-1022-71	ELECTRO 220UF 10WV	
C33 ,36	C45-1710-25	MYLAR 0.001UF J	
C37 ,40	C24-1210-69	ELECTRO 10UF 16WV	
C45 ,46	C24-1210-69	ELECTRO 10UF 16WV	
C47 ,48	C24-1222-61	ELECTRO 22UF 16WV	
C49 ,50	C25-1733-47	LL-ELEC 0.33UF 50WV	
C51 ,52	C25-1733-57	LL-ELEC 3.3UF 50WV	
C53 ,54	C45-1718-35	MYLAR 0.018UF J	

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C55 ,56	C24-1210-69	ELECTRO 10UF 16WV	
C57 ,58	C45-1722-35	MYLAR 0.022UF J	
C59 ,60	C45-1727-35	MYLAR 0.027UF J	
C61 ,62	C45-1768-25	MYLAR 0.0068UF J	
C63 ,64	C24-6547-57	ELECTRO 4.7UF 35WV	
C65 ,66	C45-1710-25	MYLAR 0.001UF J	
C67 ,68	C24-6547-57	ELECTRO 4.7UF 35WV	
C69 ,70	C24-1210-69	ELECTRO 10UF 16WV	
C71 ,72	C71-1782-05	CERAMIC 82PF J	
C73 ,74	C71-1710-02	CERAMIC 10PF D	
C75 ,76	C71-1722-15	CERAMIC 220PF J	
C77 ,78	C45-1727-35	MYLAR 0.027UF J	
C101 ,102	C24-1210-69	ELECTRO 10UF 16WV	
C103	C24-1247-61	ELECTRO 47UF 16WV	
C104	C91-0343-05	MYLAR 0.001UF 630WV	*
C105	C45-1710-35	MYLAR 0.01UF J	
C106	C45-1722-35	MYLAR 0.022UF J	
C107	C24-6547-57	ELECTRO 4.7UF 35WV	
C108	C24-1210-69	ELECTRO 10UF 16WV	
C109	C24-6547-57	ELECTRO 4.7UF 35WV	
C110	C24-1422-71	ELECTRO 220UF 25WV	
C111	C24-6547-57	ELECTRO 4.7UF 35WV	
C112	C24-1447-61	ELECTRO 47UF 25WV	
C113	C24-1410-71	ELECTRO 100UF 25WV	
C114	C24-6547-71	ELECTRO 470UF 35WV	
C115	C24-1210-81	ELECTRO 1000UF 16WV	
C116	C26-1710-57	NP-ELEC 1UF 50WV	
101 3B	E11-0320-05	PHONE JACK(MICROPHONES)	*
102 2A	E11-0321-05	PHONE JACK(HEADPHONE)	*
103 2B	E13-0432-05	PHONO JACK	
L1 ,2	L40-2235-21	INDUCTOR 22MH	
L3 ,4	L79-0312-05	FILTER (DOLBY)	
L7 ,8	L40-4725-21	INDUCTOR 4.7MH	
L9	L32-0513-05	OSCILLATING COIL	
R43 ,44	R43-1368-15	FL-PROOF RD680 J 2H	
R101 ,102	R43-1322-15	FL-PROOF RD220 J 2H	
R105	R43-1310-05	FL-PROOF RD10 J 2H	
R106	R92-0514-05	FUSE RESIST4.7 2E	
R107	R43-1312-15	FL-PROOF RD120 J 2H	
R108	R43-1318-15	FL-PROOF RD180 J 2H	
R125	R43-1301-05	FL-PROOF RD1 J 2H	
VR1 ,2	R12-4302-05	TRIMMING POT.(50KB)	
VR3 ,4	R12-3301-05	TRIMMING POT.(20KB)	
VR5 ,6	R12-3302-05	TRIMMING POT.(10KB)	
VR7 ,8	R12-5302-05	TRIMMING POT.(100KB)	
VR9	R06-5302-05	POTENTIOMETER(100KAX2)	
S1	S42-4305-05	PUSH SWITCH(DOLBY,SEL)	*
S2	S31-0310-05	SLIDE SWITCH(REC/PLAY)	*
D1 ,2	V11-0076-05	1S1555	
D1 ,2	V11-0271-05	1S2076	
D1 ,2	V11-1200-80	1SS53	
D1 ,2	V11-7700-30	1S2473	
D20	V11-0295-05	W068	
D20	V11-7100-60	ERB12-01R	
D21	V11-0076-05	1S1555	
D21	V11-0271-05	1S2076	
D21	V11-1200-80	1SS53	
D21	V11-7700-30	1S2473	
D22	V11-1301-50	SIRBA10F(4001)	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
IC1	V30-0495-10	MB3106	
IC2 ,3	V30-0316-20	NE6468	
IC4	V30-0558-10	UPC78M18H	
IC5 ,6	V30-0559-10	AN6878	
Q1 -6	V03-0828-60	2SC828(Q,R,S)	
Q1 -6	V03-0945-40	2SC945(Q,P,K)	
Q1 -6	V03-1740-30	2SC1740(Q,R)	
Q1 -6	V03-2320-10	2SC2320(E,F)	
Q7	V03-2060-10	2SC2060(Q,R)	
Q8	V01-0564-30	2SA564(Q,R,S)	
Q8	V01-0733-40	2SA733A(Q,R,K)	
Q8	V01-0999-10	2SA999(E,F)	
Q9 ,10	V03-0828-60	2SC828(Q,R,S)	
Q9 ,10	V03-0945-40	2SC945(Q,P,K)	
Q9 ,10	V03-1740-30	2SC1740(Q,R)	
Q9 ,10	V03-2320-10	2SC2320(E,F)	
MECHANISM ASSY (D40-0519-05)			
201 2C	-	CHASSIS	
202 3C	-	HEAD PANEL	
203 2C	-	PREVENTION LEVER	
204 3C	-	PUSH BUTTON LEVER 3C	
205 3D	-	PUSH BUTTON LEVER 3G	
206 3D	-	PREVENTION PLATE X2	
207 3D	-	INTERCONNECTION LEVER	
208 2D	-	SWITCH ARM	
209 2D	-	REC ARM	
210 2D	-	REW ARM	
211 2D	-	PLAY ARM	
212 2D	-	FF ARM	
213 1C	-	OPERATION LEVER	
214 1C	-	OPERATION LEVER(STOP)	
215 1C	-	LOCK PLATE	
216 1C	-	DRIVE ARM	
217 1C	-	TRIGGER LEVER	
218 2C	-	BRAKE ARM	
219 2C	-	REC SENSOR	
220 3D	-	TRIGGER OPERATION PLATE	
221 3C	-	TIMER LOCK LEVER	
222 3C	-	TIMER STOP LEVER	
223 2D	-	PAUSE ARM	
224 2C	-	REC SENSOR ARM	
225 1D	-	STOP RELEASE LEVER	
226 3D	-	CAM ARM	
227 3C	-	DETECTION LEVER	
228 2C	-	CASE LOCK LEVER	
229 2C	-	STOP LEVER	
230 1D	-	CAM ARM RETAINER	
231 3D	-	AUTO CAM	
232 2C	-	RF LEVER	
233 2D	-	PAUSE CAM	
234 2C	-	RF LEVER METAL	
235 1C	-	LEVER SPRING STOPPER	
236 1C	-	CAM RETAINER	
237 3C	-	PANEL HOLDER	
238 2C	-	CASSETTE HOLDER SPRING	
239 1C	-	DRIVE ARM SUB PLATE	
240 3D	-	FRAME	
241 3C	-	LOCK LEVER HOLDER	
242 2D	-	INTERMEDIATE PUL HOLDER	
243 1D	-	FLYWHEEL HOLDER	
244 3D	-	AUTO PLATE HOLDER	
245 3D	-	INTERMEDIATE PUL HOLDER	